

We claim:

1. An isocyanate adduct which can be prepared by reacting at  
5 least one polyisocyanate with compounds having at least two  
hydrogen atoms which are reactive toward isocyanate groups  
and has a crystalline content of less than 10 J/g determined  
by differential scanning calorimetry in accordance with DIN  
51 004 at 20 K/min from room temperature to 250°C using a  
10 nitrogen flow of 3 l/h as carrier gas and an aromatics  
content reported as carbon atoms in aromatic rings of less  
than 31% by weight, based on the total weight of the  
isocyanate adduct.
- 15 2. An isocyanate adduct as claimed in claim 1 which has a  
thermal conductivity determined by the hot wire method at  
23°C of less than 0.2 W/m\*K, preferably less than 0.19 W/m\*K.
3. An isocyanate adduct as claimed in claim 1 or 2 containing  
20 fillers.
4. An isocyanate adduct as claimed in any of claims 1 to 3,  
wherein the fillers are hollow microspheres having a possible  
pressure loading of greater than 10 bar.
- 25 5. An isocyanate adduct as claimed in any of claims 1 to 4,  
wherein the fillers are hollow glass microspheres.
6. An isocyanate adduct as claimed in any of claims 1 to 5,  
30 wherein the fillers are hollow polymer microspheres.
7. An isocyanate adduct as claimed in any of claims 1 to 6,  
wherein the fillers are hollow ceramic microspheres.
- 35 8. A process for preparing isocyanate adducts as claimed in any  
of claims 1 to 7 by reacting
  - a) at least bifunctional isocyanates with
  - 40 b) at least one compound having at least two reactive  
hydrogen atoms in the presence of
  - c) catalysts,
- 45 wherein the compounds having reactive hydrogen atoms b)  
comprise at least one polyetherol bi) having a functionality  
greater than 2.5 and a molar mass greater than 300 g/mol,

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preferably from 300 to 1000 g/mol, and at least one polyol bii) having a molar mass greater than 1000 g/mol and a functionality of from 1.7 to 3 and the reaction is carried out at an index of less than 200.

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9. A process as claimed in claim 8, wherein the isocyanate a) used is a mixture of diphenylmethane diisocyanate and polyphenylenepolymethylene polyisocyanates.

10 10. A process as claimed in claim 9, wherein the isocyanate is used in an amount of less than 54% by weight, based on the weight of all starting materials.

11. A process as claimed in claim 10, wherein the component b) further comprises at least one polyetherol biii) having a molar mass of less than 1000 g/mol and a functionality of less than 2.5.

12. A process as claimed in claim 11, wherein the component b) further comprises at least one polyesterol biv).

13. A process as claimed in claim 12, wherein the component b) further comprises at least one bifunctional chain extender bv) having a molecular weight in the range from 62 to 400 g/mol.

14. A process as claimed in claim 15, wherein the catalysts used are amine catalysts and/or trimerization catalysts.

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